Amendments to the Claims

The listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A method for accessing a variable memory of an optical disk drive comprising the following steps:

(a) utilizing the optical disk drive to read data of an optical disk and identifying the type of the disk;

(b) if the type of the disk is first optical disk, ~~storing~~ setting up variables at an address of a ~~second~~ first area arranged in the variable memory according to the type of the disk; and

(c) if the type of the disk is second optical disk, ~~storing~~ setting up variables at the address of the ~~second~~ first area arranged in the variable memory according to the type of the disk; and

~~(d) storing common reading variables necessary for the optical disk drive to access the optical disk into a first area arranged in the variable memory;~~

wherein ~~the common reading variables stored in the variable memory will not be replaced when a different type optical disk is accessed by the optical disk drive~~ an arrangement of the variable memory is predetermined regardless of the type of the disk accessed by the optical disk drive.

Claim 2 (previously presented): The method of claim 1 wherein the first optical disk type comprises CDDA, VCD, CD-ROM, CD-R, or CD-RW, and the second optical disk type comprises DVD-ROM, DVD-R, DVD-RW, DVD+R, DVD+RW, or DVD-RAM.

Claim 3 (previously presented): The method of claim 1 wherein the variables in step (b) or (c) are reading variables related to content of the optical disk.

Claim 4 (currently amended): The method of claim 1 wherein the variables are reading variables, and when the optical disk ~~stores~~ sets up the reading variables in step (b) or (c) in the variable memory, the reading variables replace reading variables of a last-inserted optical disk ~~stored~~ set up in the address of the ~~second~~ first area arranged in the variable memory.

Claim 5 (currently amended): The method of claim [[1]] 19 wherein the common reading variables include drive configuration, status, or tray status.

Claim 6 (currently amended): The method of claim 5 wherein the common reading variables ~~stored~~ set up in the variable memory will not be replaced when a plurality of optical disks following the optical disk are accessed by the optical disk drive.

Claim 7 (cancelled)

Claim 8 (currently amended): A method for accessing a variable memory of an optical disk drive comprising following steps:

(a) utilizing the optical disk drive to read data of a DVD disk and identifying the type of the DVD disk;

(b) if the type of the DVD disk is DVD-ROM, ~~storing~~ setting up variables at an address of a ~~second~~ first area arranged in the variable memory according to the type of the DVD disk; and

(c) if the type of the DVD disk is DVD-RAM, ~~storing~~ setting up variables at the address of the ~~second~~ first area arranged in the variable memory according to the type of the DVD disk;

~~(d) storing common reading variables necessary for the optical disk drive to access the optical disk into a first area arranged in the variable memory;~~

wherein ~~the common reading variables stored in the variable memory will not be replaced when a different type optical disk is accessed by the optical disk~~

~~drive~~ an arrangement of the variable memory is predetermined regardless of the type of the disk accessed by the optical disk drive.

Claim 9 (currently amended): The method of claim 8 wherein the variables are reading variables, and when the optical disk drive ~~stores~~ sets up the reading variables in step (b) or (c) in the variable memory, the reading variables replace reading variables of a last-inserted disk ~~stored~~ set up in the address of the ~~second~~ first area arranged in the variable memory.

Claim 10 (currently amended): The method of claim [[8]] 20 wherein the common reading variables include drive configuration, status, or tray status.

Claim 11 (currently amended): The method of claim 10 wherein the common reading variables ~~stored~~ set up in the variable memory will not be replaced when a plurality of optical disks following the optical disk are accessed by the optical disk drive.

Claim 12 (cancelled)

Claim 13 (currently amended): A method for accessing a variable memory of an optical disk drive comprising following steps:

(a) utilizing the optical disk drive to read and write data of an optical disk and identifying the type of the disk;

(b) if the type of the disk is first recordable optical disk, ~~storing~~ setting up variables at a first address of a ~~second~~ first area arranged in the variable memory according to the type of the disk; and

(c) if the type of the disk is second recordable optical disk, ~~storing~~ setting up variables at the first address of the ~~second~~ first area arranged in the variable memory according to the type of the disk; [[and]]

~~(d) storing common reading variables necessary for the optical disk drive to~~

~~access the optical disk into a first area arranged in the variable memory;~~ wherein ~~the common reading variables stored in the variable memory will not be replaced when a different type optical disk is accessed by the optical disk drive~~ an arrangement of the variable memory is predetermined regardless of the type of the disk accessed by the optical disk drive.

Claim 14 (previously presented): The method of claim 13 wherein the first recordable optical disk type comprises CD-R or CD-RW, and the second recordable optical disk type comprises DVD-R, DVD-RW, DVD+R, DVD+RW, or DVD-RAM.

Claim 15 (currently amended): The method of claim 13 wherein the variables are writing variables, and when the optical disk drive ~~stores~~ sets up the writing variables in step (b) or (c) in the variable memory, the writing variables replace writing variables of a last-inserted optical disk ~~stored~~ set up in the first address of the ~~second~~ first area arranged in the variable memory.

Claim 16 (currently amended): The method of claim 13 further comprising:

if the type of the disk is first recordable optical disk data, ~~storing~~ setting up reading variables at a second address of the ~~second~~ first area arranged in the variable memory; and

if the type of the disk is second optical disk data, ~~storing~~ setting up reading variables at the second address of the ~~second~~ first area arranged in the variable memory.

Claim 17 (previously presented): The method of claim 16 wherein the first and second addresses are different.

Claim 18 (cancelled)

Claim 19 (new): The method of claim 1, further comprising:

setting up common reading variables necessary for the optical disk drive to access the optical disk into a second area arranged in the variable memory according to the type of the disk;

wherein the common reading variables set up in the variable memory will not be replaced when a different type optical disk is accessed by the optical disk drive.

Claim 20 (new): The method of claim 8, further comprising:

setting up common reading variables necessary for the optical disk drive to access the DVD disk into a second area arranged in the variable memory according to the type of the DVD disk;

wherein the common reading variables set up in the variable memory will not be replaced when a different type optical disk is accessed by the optical disk drive.

Claim 21 (new): The method of claim 13, further comprising:

setting up common reading variables necessary for the optical disk drive to access the optical disk into a second area arranged in the variable memory according to the type of the disk;

wherein the common reading variables set up in the variable memory will not be replaced when a different type optical disk is accessed by the optical disk drive.

Claim 22 (new): The method of claim 3, wherein step (b) further comprises:

if the type of the disk is first optical disk, reading a predetermined area on the optical disk to judge whether the optical disk is recordable; and

if the optical disk is recordable, setting up writing variables at another address of the first area arranged in the variable memory; and

step (c) further comprises:

if the type of the disk is second optical disk, reading a predetermined area on the optical disk to judge whether the optical disk is recordable; and

if the optical disk is recordable, setting up writing variables at the another address of the first area arranged in the variable memory.

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